Coral Spawning Predictions for the Southern Caribbean

							DAYS AFM	10	11	12	13					
A 11 6		DAYS AFM	10	11	12	13	DATE	6-May	7-May	8-May	9-May	DAYS AFM	10	11	12	13
April to Ea	rly July Corals	CALENDAR DATE	7-Apr	8-Apr	9-Apr	10-Apr	SUNSET	18:50	18:50	18:51	18:51	DATE	4-Jul	5-Jul	6-Jul	7-Jul
, .p	ing cany condition	SUNSET TIME	18:47	18:47	18:47	18:47	DATE	5-Jun	6-Jun	7-Jun	8-Jun	SUNSET	19:04	19:04	19:04	19:04
Latin name	Common Name	Spawning Window					SUNSET	18:58	18:58	18:59	18:59					
Diploria labyrinthiformis*	Grooved Brain Coral	70 min BS-10 min AS		17:35	-19:00		1 [17:40	-19:10		l		17:55	-19:15	

		DAYS AFM	0	1	2	3	4	5	6	7	8	9	10	- 11	12	13
Late July Cor	als	CALENDAR DATE	23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul	30-Jul	31-Jul	1-Aug	2-Aug	3-Aug	4-Aug	5-Aug
		SUNSET TIME	19:03	19:03	19:03	19:03	19:02	19:02	19:02	19:01	19:01	19:01	19:01	19:00	19:00	18:59
Latin name	Common Name	Spawning Window														
Diploria labyrinthiformis*	Grooved Brain Coral	70 min BS-10 min AS												17:50	-19:10	
Montastraea cavernosa	Great Star Coral	15-165 min AS							19:15-21:50	1						
Colpophyllia natans	Boulder Brain Coral	35-110 min AS								19:35-20:55						
Pseudodiplora strigosa (Early group)	Symmetrical Brain Coral	30-70 min AS								19:30-20:10)					
Dendrogyra cylindrus	Pillar Coral	90-155 min AS	20:30-21:40													
Acropora palmata	Elkhorn Coral	140-190 min AS	20:50-22:40 (Spawning could occur on any of these dates: This species is not h								ghly predicta	ble in the So	uthern Caribl	bean)		
Acropora cervicornis	Staghorn Coral	150-190 min AS	21:00-21:50													
Montastrona/Orbinalla annularia	Laborat Davidson Chan Count	19E 2E0 min AC							22.05	22-45						

Late August Corals DAYS AF CALENDAR DAY			0	1	2	3	4	5	6	7	8	9	10	11	12	13
Late August C	corais	CALENDAR DATE	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug	31-Aug	1-Sep	2-Sep	3-Sep	4-Sep
8		SUNSET TIME	18:51	18:51	18:50	18:50	18:49	18:48	18:48	18:47	18:47	18:46	18:45	18:45	18:44	18:43
Latin name	Common Name	Spawning Window														
Diploria labyrinthiformis*	Grooved Brain Coral	70 min BS-10 min AS												17:35	18:55	
Montastraea cavernosa	Great Star Coral	15-165 min AS							19:05-21:30							
Colpophyllia natans	Boulder Brain Coral	35-110 min AS								19:25-20:40						
Pseudodiploria strigosa (Early group)	Symmetrical Brain Coral	30-70 min AS							19:15-20:00							
Dendrogyra cylindrus	Pillar Coral	90-155 min AS				-21:25										
Dichocoenia stokesii	Pineapple Coral	100-160 min AS			20:3	0-21:30 (Spa	wns through	out the Sept/	Oct lunar cyc	cles - can you	ı help us disc	over what the	ey do in Aug	ust?)		
Acropora palmata	Elkhorn Coral	140-190 min AS		21:	10-22:00 (Sp:	awning could	occur on an	y of these da	tes: This spe	cies is not hi	ghly predicta	ble in the Sor	uthern Caribb	oean)		
Acropora cervicornis	Staghorn Coral	150-190 min AS				21:20-22:00										
Montastraea/Orbicella annularis	Lobed/Boulder Star Coral	185-250 min AS							21:50	-23:00						
Montastraea/Orbicella faveolata	Mountainous Star Coral	185-250 min AS							21:50	-23:00						
Pseudodiploria strigosa (Late group)	Symmetrical Brain Coral	220-270 min AS								22:30-23:20	,					

1 - 6 - 0 6		DATS AFW	U	1		3	4	5		- /		9	10	111	12	13
Late Septeml	ber Corais	CALENDAR DATE	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep	1-Oct	2-Oct	3-Oct
•		SUNSET TIME	18:32	18:32	18:31	18:30	18:30	18:29	18:28	18:28	18:27	18:26	18:26	18:25	18:24	18:24
Latin name	Common name	Spawning Window														
Diploria labyrinthiformis*	Grooved Brain Coral	70 min BS-10 min AS												17:15	-18:35	
Meandrina meandrites	Maze Coral	10-70 min AS						18:40-	-19:40 (Expe	cted every ni	ight until at le	ast Oct 10 -	we welcome	new observa	tions from an	y date)
Montastraea cavernosa	Great Star Coral	15-165 min AS							18:45-21:15							I
Colpophyllia natans	Boulder Brain Coral	35-110 min AS								19:05-20:20)					
Pseudodiploria strigosa (Early group)	Symmetrical Brain Coral	30-70 min AS								19:00-19:40)					
Eusmilia fastigiata	Smooth Flower Coral	75-270 min AS								19:45	5-23:00					
Montastraea/Orbicella franksi	Boulder Star Coral	90-150 min AS							20:00	-21:00						
Dendrogyra cylindrus	Pillar Coral	90-155 min AS			20:00	-21:05										
Dichocoenia stokesii	Pineapple Coral	100-160 min AS						Expected ever							date this mor	ith)
Acropora palmata	Elkhorn Coral	140-190 min AS		20:	50-22:40 (Sp	awning could	d occur on ar	ny of these da	ites: This spe	cies is not h	ighly predicta	ble in the So	outhern Carib	bean)		
Acropora cervicornis	Staghorn Coral	150-190 min AS				21:00-21:50)									
Stephanocoenia intersepta	Blushing Star Coral	160-210 min AS							21:10	-22:00						
Montastraea/Orbicella annularis	Lobed/Boulder Star Coral	185-250 min AS							21:35	-22:40						
Montastraea/Orbicella faveolata	Mountainous Star Coral	185-250 min AS							21:35	-22:40						
Siderastrea siderea	Massive Starlet Coral	210-280 min AS						22:00-23:10								
Pseudodiploria clivosa	Knobby Brain Coral	210-255 min AS								22:00)-22:45					
Pseudodiploria strigosa (Late group)	Symmetrical Brain Coral	220-270 min AS								22:10-23:00						
Madracis senaria	Ten-Ray Star Coral	all night							all night	,	,					
Agaricia humilis/Agaricia agaricites	Lettuce Coral	all night							all night							

1 - 4 - 0 - 4 - 4		DAYS AFM	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Late October	Corais	CALENDAR DATE	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	1-Nov	2-Nov
		SUNSET TIME	18:14	18:14	18:13	18:13	18:12	18:12	18:12	18:11	18:11	18:10	18:10	18:10	18:09	18:09
Latin name	Common Name	Spawning Window														
Diploria labyrinthiformis*	Grooved Brain Coral	70 min BS-10 min AS											17:00-18:20			
Meandrina meandrites	Maze Coral	10-70 min AS					18:20-19:25 (Expected every night until at least Nov 10 - we welcome new observations from an									
Montastraea cavernosa	Great Star Coral	15-165 min AS							18:25-20:55							
Colpophyllia natans	Boulder Brain Coral	35-110 min AS								18:45-20:00						
Pseudodiploria strigosa (Early group)	Symmetrical Brain Coral	30-70 min AS								18:40-19:20						
Eusmilia fastigiata	Smooth Flower Coral	75-270 min AS					19:25-22:45									
Montastraea/Orbicella franksi	Boulder Star Coral	90-150 min AS							19:40	-20:40						
Dendrogyra cylindrus	Pillar Coral	90-155 min AS			19:45	-20:50										
Dichocoenia stokesii	Pineapple Coral	100-160 min AS				19):50-20:50 (E	xpected ever	y night acros	s the full lun	ar cycle - we	welcome ner	w observation	ns from any o	ate this mon	ith)
Stephanocoenia intersepta	Blushing Star Coral	160-210 min AS							20:50	-21:40						
Montastraea/Orbicella annularis	Lobed/Boulder Star Coral	185-250 min AS							21:15	-22:20						
Montastraea/Orbicella faveolata	Mountainous Star Coral	185-250 min AS							21:15	-22:20						
Siderastrea siderea	Massive Starlet Coral	210-280 min AS						21:40-22:50								
Pseudodiploria clivosa	Knobby Brain Coral	210-255 min AS								21:40	-22:30					
Pseudodiploria strigosa (Late group)	Symmetrical Brain Coral	220-270 min AS					21:50-22:40									
Madracis senaria	Ten-Ray Star Coral	all night						·	all night	·		·				
Agaricia humilis/Agaricia agaricites	Lettuce Coral	all night							all night							

1 - 6 - K1 1		DAYS AFM	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Late November Corals CALENDAR		CALENDAR DATE	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov	1-Dec	2-Dec
		SUNSET TIME	18:07	18:07	18:07	18:07	18:07	18:07	18:07	18:07	18:08	18:08	18:08	18:08	18:08	18:09
Latin name	Common name	Spawning Window														
Diploria labyrinthiformis*	Grooved Brain Coral	70 min BS-10 min AS								17:00-18:15						
Meandrina meandrites	Maze Coral	10-70 min AS						·	18:15-19:20 (Expected even	ery night until	l at least Dec	5 - can you	help us find t	he end date?	')
Eusmilia fastigiata	Smooth Flower Coral	75-270 min AS							19:20-22:40							
Dichocoenia stokesii	Pineapple Coral	100-160 min AS					19:45-20:4	45 (Spawning	pawning has been observed throughout the Sept/Oct lunar cycle, we welcome new observations in Nov						in Nov and	

Aug/Sep/Oct - Sponges/Gorgs/More		DAYS AFM CALENDAR DATE CALENDAR DATE CALENDAR DATE		1 23-Aug 21-Sep 21-Oct	2 24-Aug 22-Sep 22-Oct	3 25-Aug 23-Sep 23-Oct	4 26-Aug 24-Sep 24-Oct	5 27-Aug 25-Sep 25-Oct	6 28-Aug 26-Sep 26-Oct	7 29-Aug 27-Sep 27-Oct	8 30-Aug 28-Sep 28-Oct	9 31-Aug 29-Sep 29-Oct	10 1-Sep 30-Sep 30-Oct	11 2-Sep 1-Oct 31-Oct	12 3-Sep 2-Oct 1-Nov	13 4-Sep 3-Oct 2-Nov
Latin name	Common Name															
Holothuria mexicana	Donkeydung Sea Cucumber		12:00-18:00													
Hermodice carunculata	Fire Worm		12:00-19:00													
Diadema antilliarum	Long-Spined Sea Urchin								12:00	-21:00						
Neofibularia nolitangere	Touch-Me-Not Sponge						14:00-17:00									
Plexaura, Pseudoplexaura, Eunicia	Sea Rods							S	tarting at 19:	00						
Plexaura homomalla	Black Sea Rod		19:00-23:00													
Ophiuroidea	Brittle Sea Star/Serpent Star		19:30-23:00													
Pseudopterogorgia spp.	Sea Plume								20:00-23:00	1						
Spirobranchus giganteus								21:00	-22:30							

Legend & Abbreviations

Days AFM: Days After the Full Moon

min BS = Minutes Before Sunset min AS = Minutes After Sunset

Pale Blue: Spawning may be possible, but more data are needed! This species is understudied on these dates and times. Please help us make new discoveries by diving these windows!

Pale Yellow: Spawning is possible - has been observed on these dates

Bright Orange: Spawning is likely - often observed on these dates Red: Spawning is very likely - reliably observed on these dates

To Observe Spawning

- Make multiple dives on multiple nights
- Dive in a place with high coral cover
- Enter the water before predicted times
 Dive shallower than 50 ft to maximize bottom time
 Use a moderately bright dive light
- . Scan the water column for clouds of spawn



Notes & Thanks

- Predictions are based on observations from previous years, but this does not guarantee spawning will occur. When in doubt, go for a dive!
- Spawning times vary based on local sunset times. To look up your local sunset times,
- visit www.sunandmoon.com.
- visit www.sunandmoon.com.

 Your discoveries help coral research! Please report your spawning observations (species, date, time, location, and pictures if possible) to carmabilog@gmail.com. To contribute to the CRC spawning database, contact v.chamberland@secore.org.

 Special thanks to everyone who contributed their spawning observations over the past 25+ years! We wish you a safe and productive spawning season!
- Citation: Vermeij, M.J.A., Chamberland, V.F., and Marhaver, K.L. "Coral Spawning Predictions, Southern Caribbean 2007–2021." CARMABI, Curacao.